

V&V Reference Report

L2 ASCDS Version : 7.6.8.1

Observation 2557 - L2 Version 001
Chandra X-Ray Center

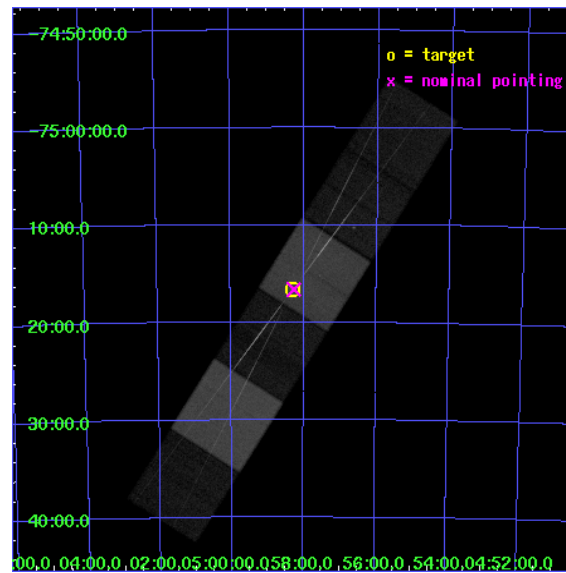
L2 Processing Date : Aug 31 2006

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
3	Gratings	17
3.1	HEG Arm	17
3.2	MEG Arm	19
A	Summary	21
A.1	Status	21
A.2	Comments	21

1 Front

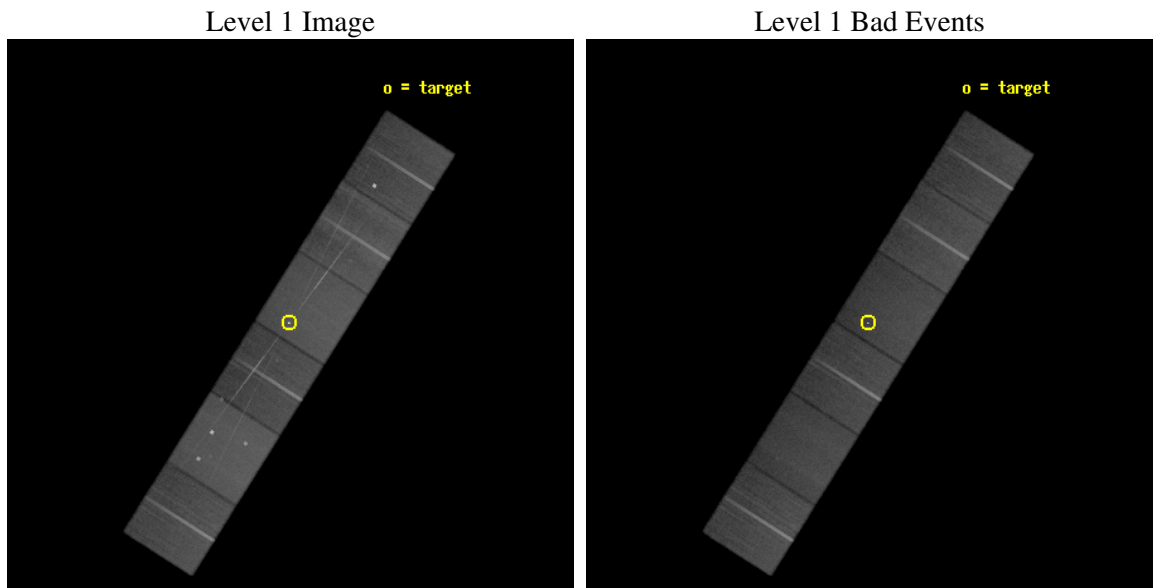
seq_num	200165
obs_id	2557
title	DENSITY STRATIFICATION OF THE VERY HOT CORONA OF YY MENSAE
observer	Dr. Manuel Guedel
object	YY MEN, HD 32918
dtcycle	0
cycle	P
ra_targ	74.574583
dec_targ	-75.277222
ra_nom	74.56594196471
dec_nom	-75.276901923746
roll_nom	302.29255871575
revision	2
ontime	75200.000070035
livetime	74247.772389145
ontime4	75200.000070035
ontime5	75200.000070035
ontime6	75200.000070035
ontime7	75200.000070035
ontime8	75196.759089857
ontime9	75196.759099782
l2events	734029



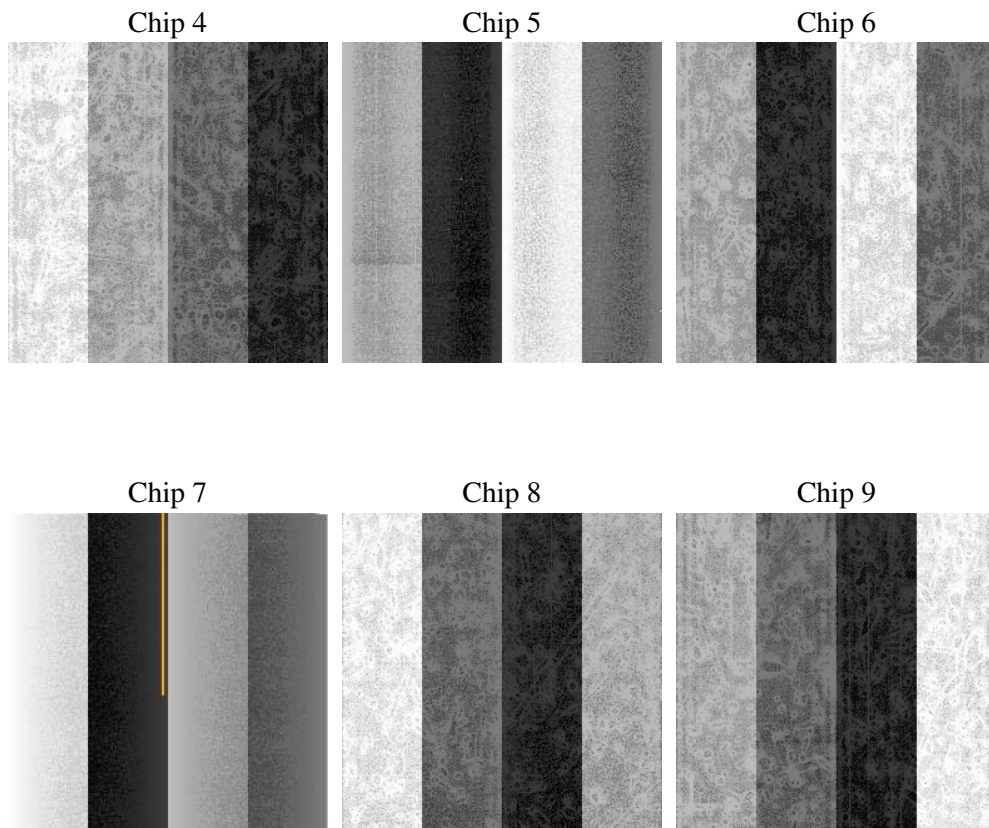
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1
ascdsver	7.6.8.1
caldsver	3.2.3
date	2006-08-31T05:32:01
revision	2

sched_exp_time	75444.337000
ontime	75204.144951329
ontime4	75204.144951329
ontime5	75204.144951329
ontime6	75204.144951329
ontime7	75204.144951329
ontime8	75200.903861478
ontime9	75200.903981075
l1events	3336103

2.1.4 Events

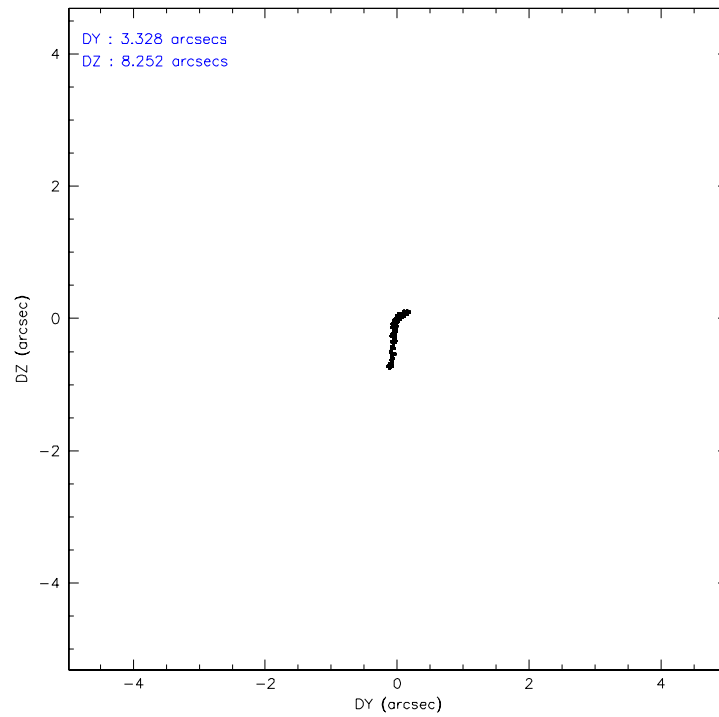
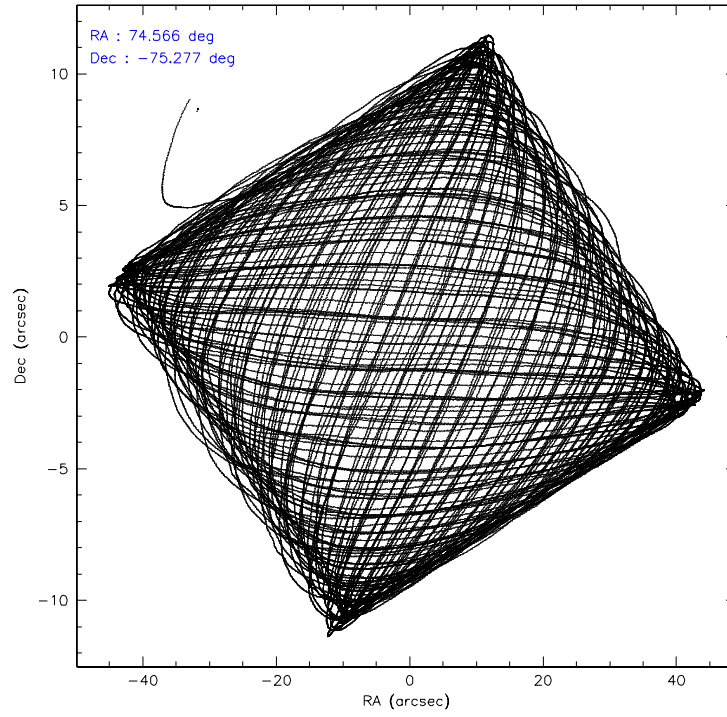
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	508098	669846	474832	627029	588307	467991
rejected events	451859	367528	405406	374576	463238	399029
rejected %	88%	54%	85%	59%	78%	85%

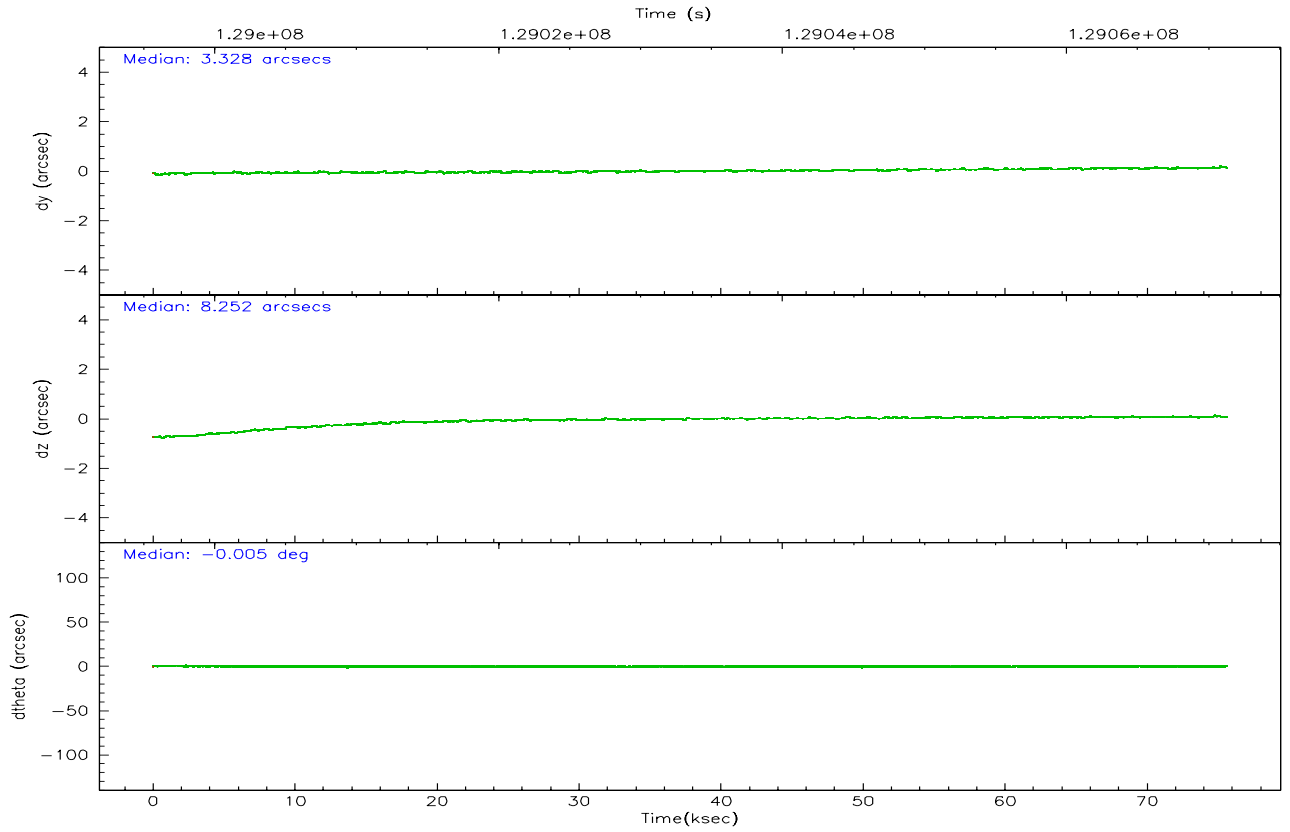
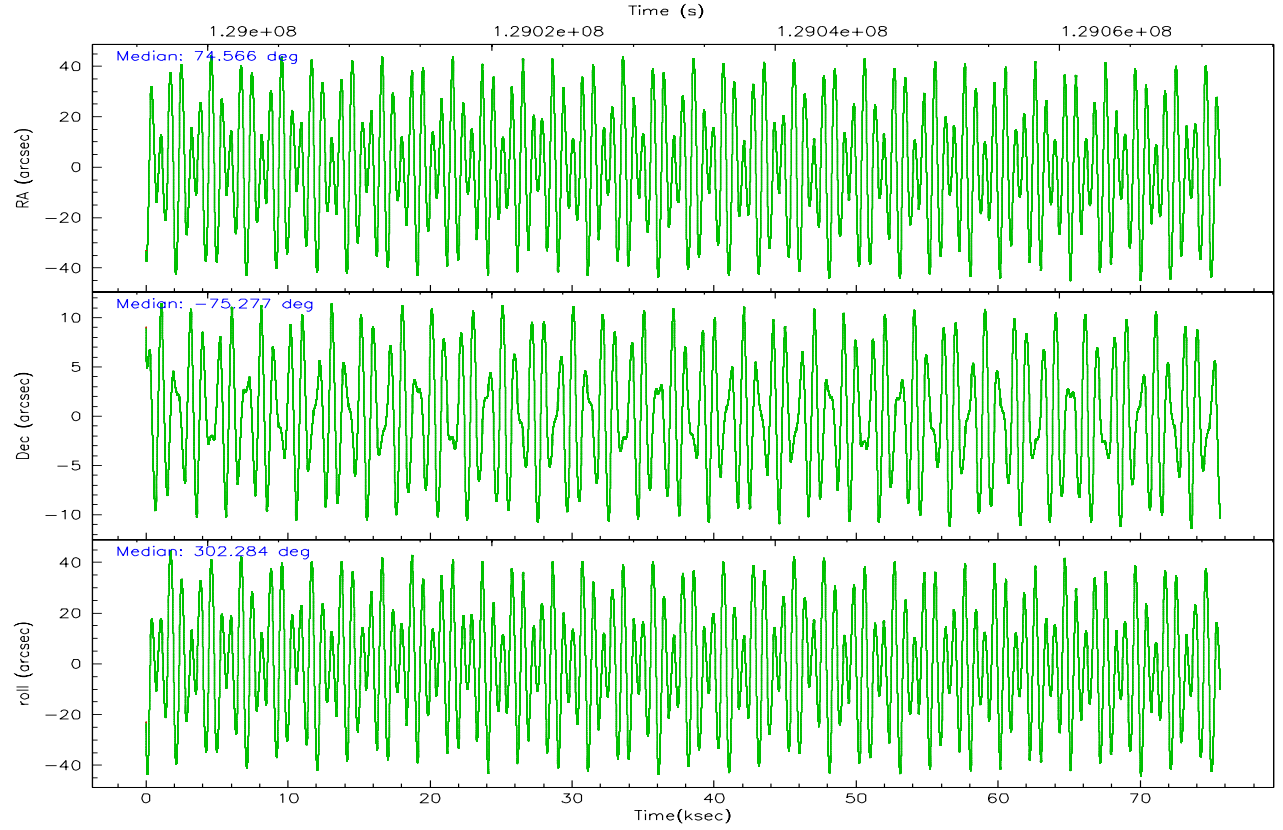
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	22662	37036	34051	17835	43751	35925
	4%	5%	7%	2%	7%	7%
grade 1 events	242	770	231	539	336	222
	0%	0%	0%	0%	0%	0%
grade 2 events	13646	87737	12676	62598	26632	11527
	2%	13%	2%	9%	4%	2%
grade 3 events	5204	6902	5886	14512	12296	5410
	1%	1%	1%	2%	2%	1%
grade 4 events	4879	6520	5878	14305	11378	5101
	0%	0%	1%	2%	1%	1%
grade 5 events	16913	31525	20435	42062	25385	20354
	3%	4%	4%	6%	4%	4%
grade 6 events	9852	164135	10936	143216	31016	11004
	1%	24%	2%	22%	5%	2%
grade 7 events	434700	335221	384739	331962	437513	378448
	85%	50%	81%	52%	74%	80%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	HETG	HETG	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	74.470495	74.56594196471022	Alternating exposures requested	N	N
Pointing Dec	-75.264496	-75.27690192374584	Primary exposure time	0.000000	3.2
Pointing Roll	302.043614	302.2925587157459			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-187.132523	-187.1254020033014			
SIM translation stage offset (mm)	-3	-3.007120579706367			
Observation start time	128995868.184000	128995021.54809			
Observation start date	2002-02-02T00:10:04	2002-02-01T23:57:01			
Observation end time	129071313.184000	129071626.97618			
Observation end date	2002-02-02T21:07:29	2002-02-02T21:13:46			
Read mode	TIMED	TIMED			

2.3 Aspect



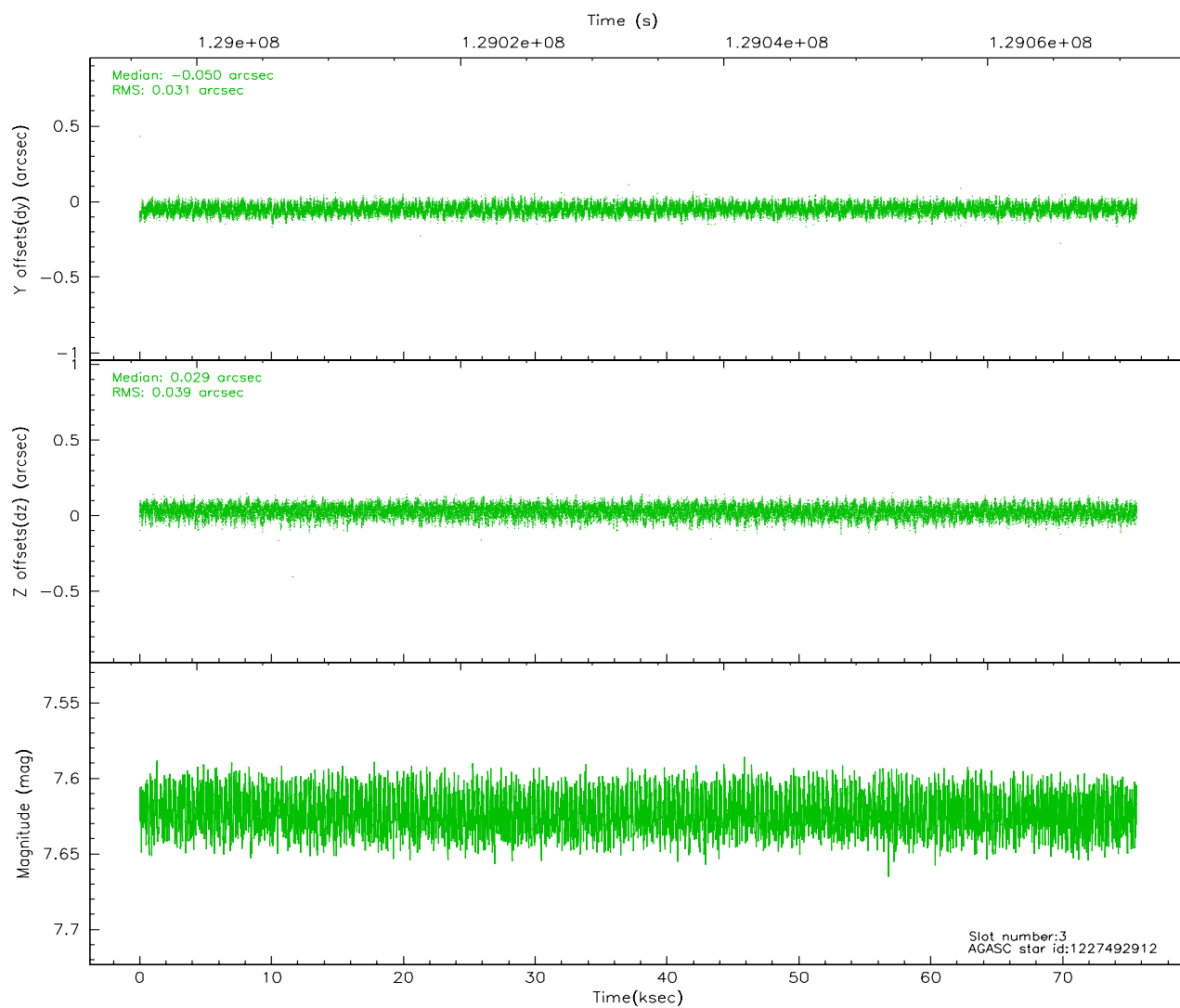
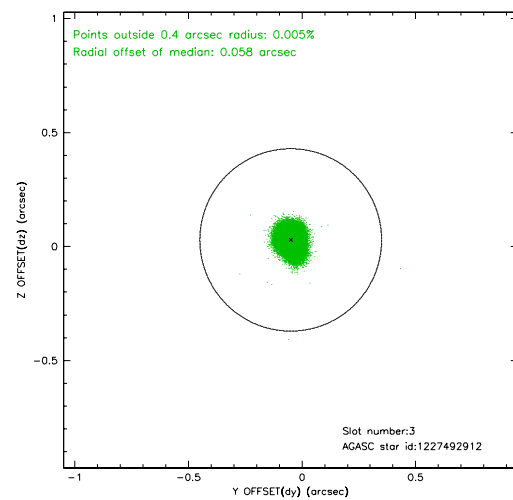
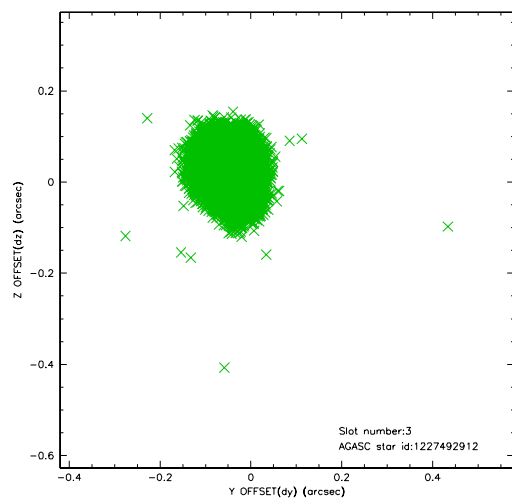


Slot Statistics

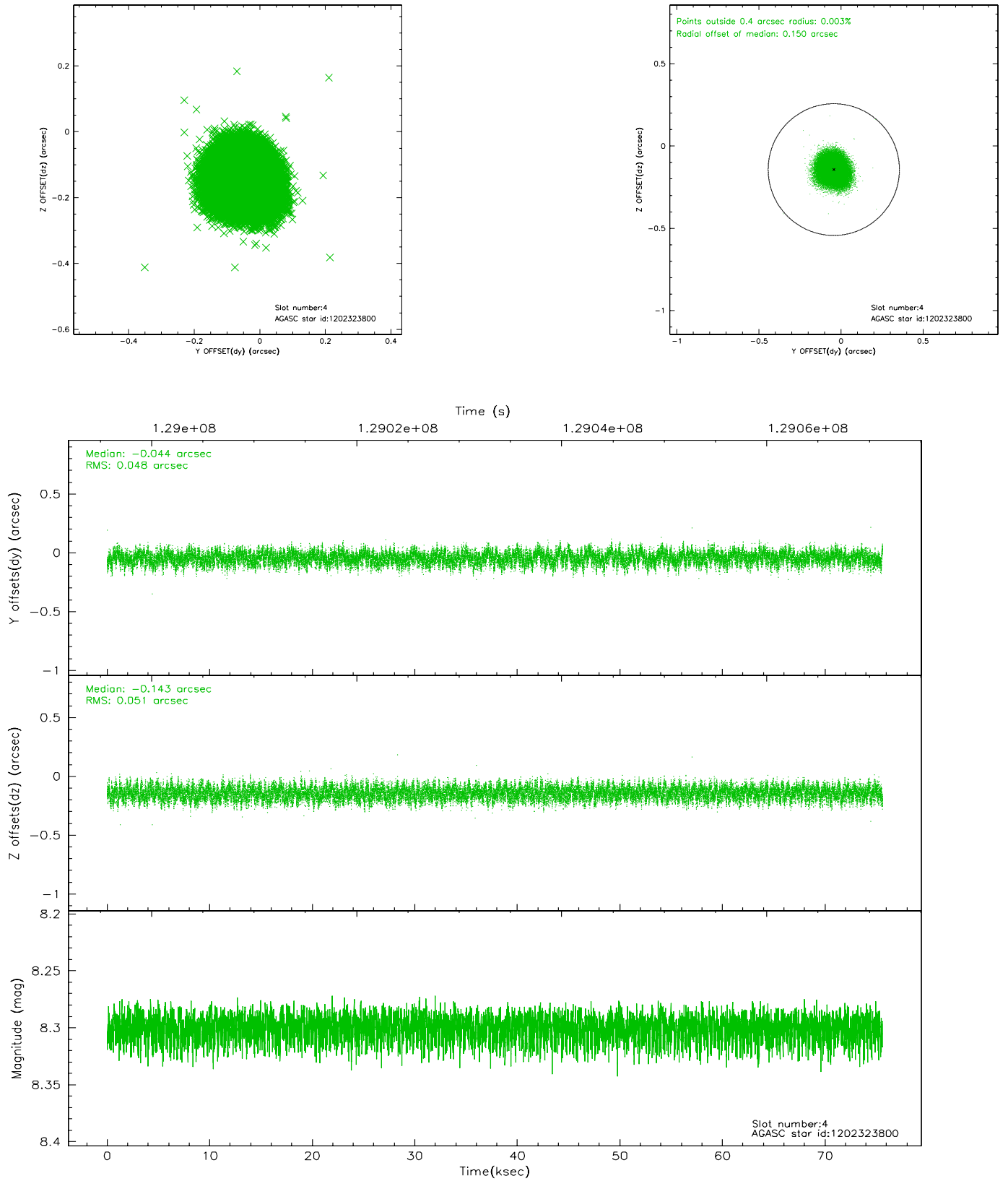
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	18449	-0.043	0.005	0.007	0.013	0.000000	0.000000	-755.79	-1791.46
1	FID	ACIS-S-4	7.20	18448	-0.026	0.019	0.005	0.010	0.000000	0.000000	2157.49	117.16
2	FID	ACIS-S-5	7.23	18449	0.038	-0.016	0.007	0.012	0.000000	0.000000	-1808.67	110.64
3	GUIDE	1227492912	7.62	36894	-0.050	0.029	0.053	0.084	71.883510	-75.075335	-1805.18	-1698.85
4	GUIDE	1202323800	8.30	36883	-0.044	-0.143	0.076	0.118	76.094692	-74.921118	-223.85	1934.17
5	GUIDE	1227491856	8.30	36892	-0.018	0.128	0.063	0.100	71.808944	-75.076863	-1834.39	-1761.60
6	GUIDE	1227495112	9.24	36871	0.128	-0.026	0.097	0.165	73.592638	-76.151427	2310.16	-2337.67
7	GUIDE	1227499776	10.01	36729	-0.013	0.018	0.138	0.216	76.731206	-75.534372	1934.44	1187.38

2.4 Star Slots

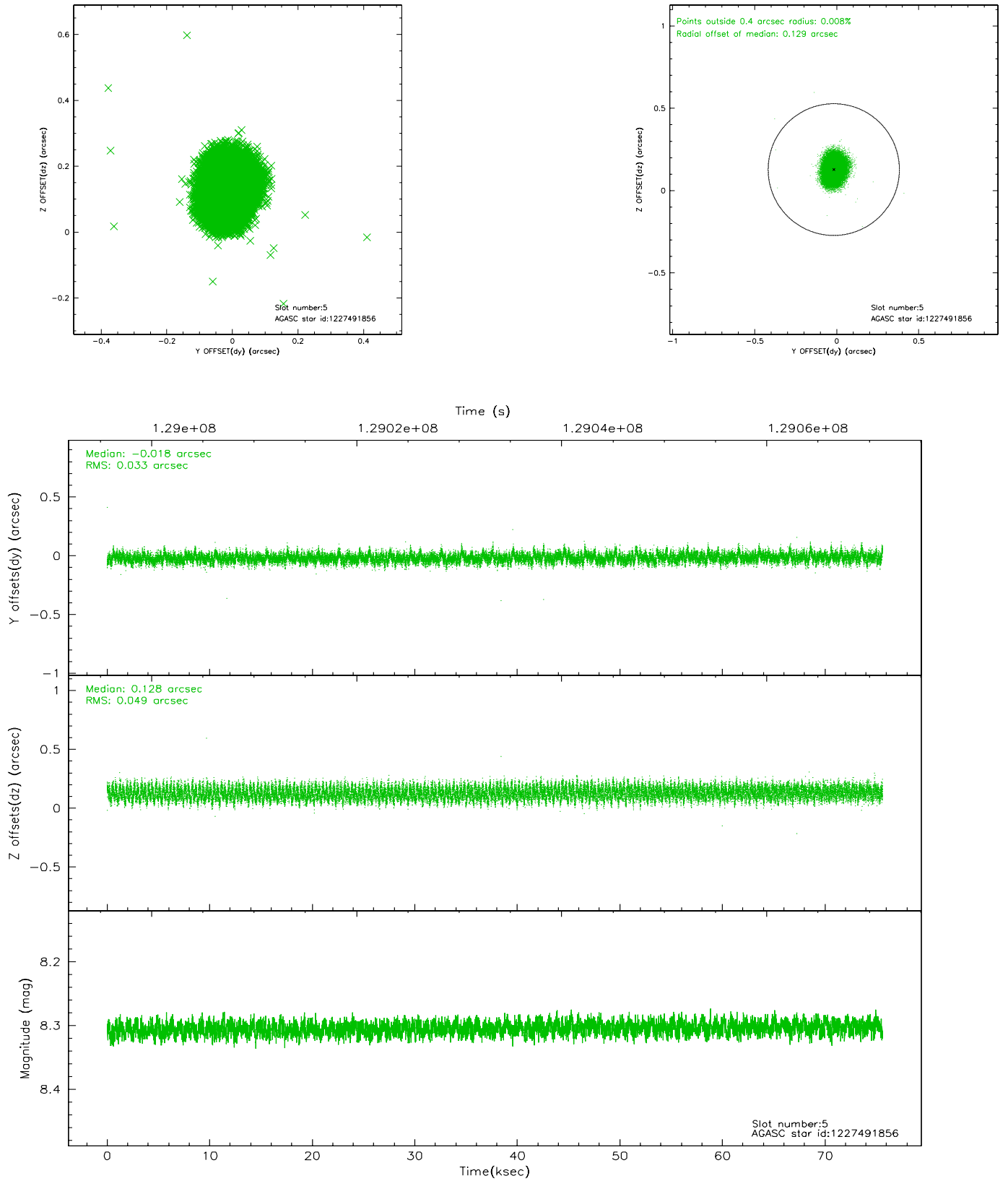
2.4.1 Slot 3



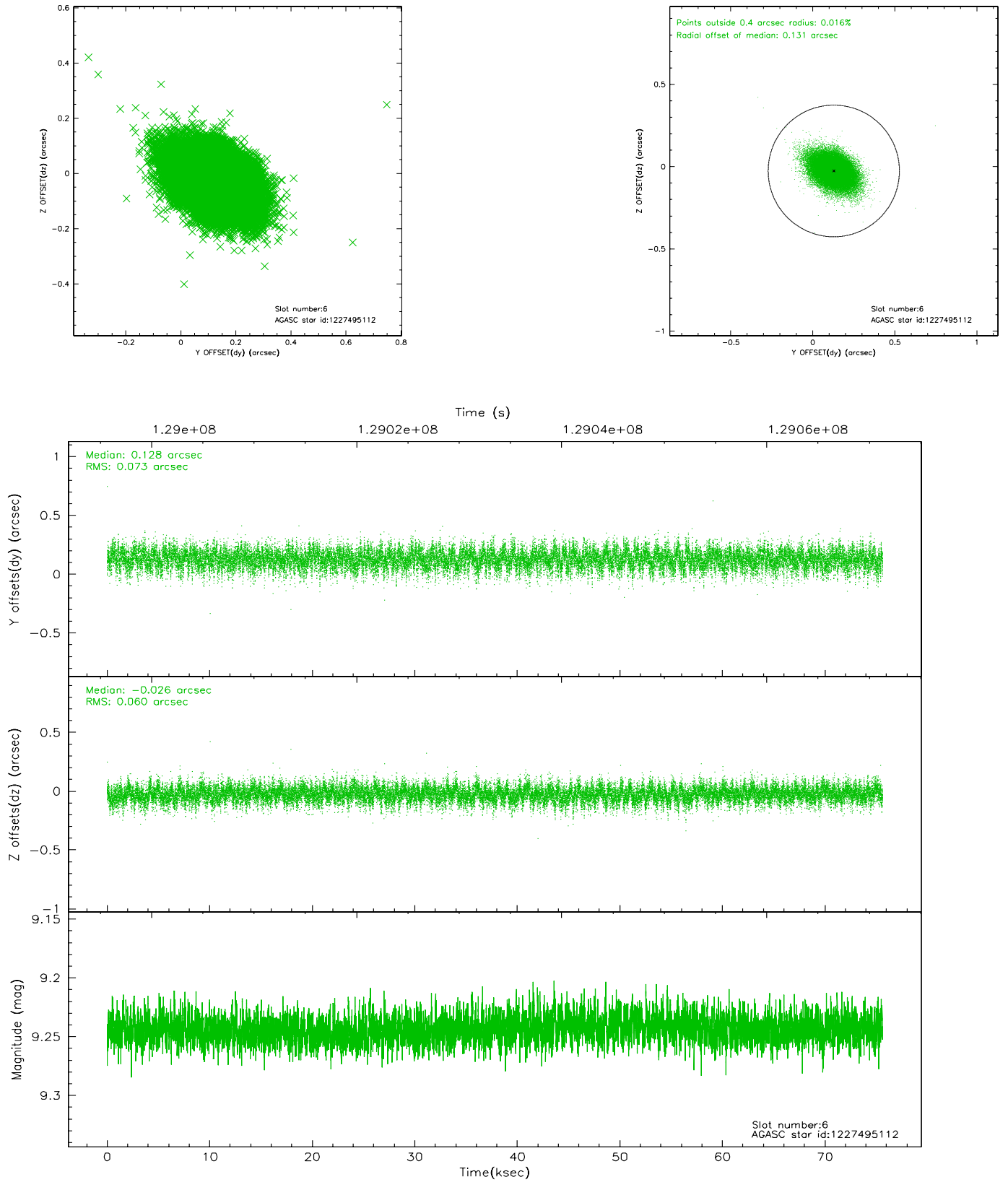
2.4.2 Slot 4



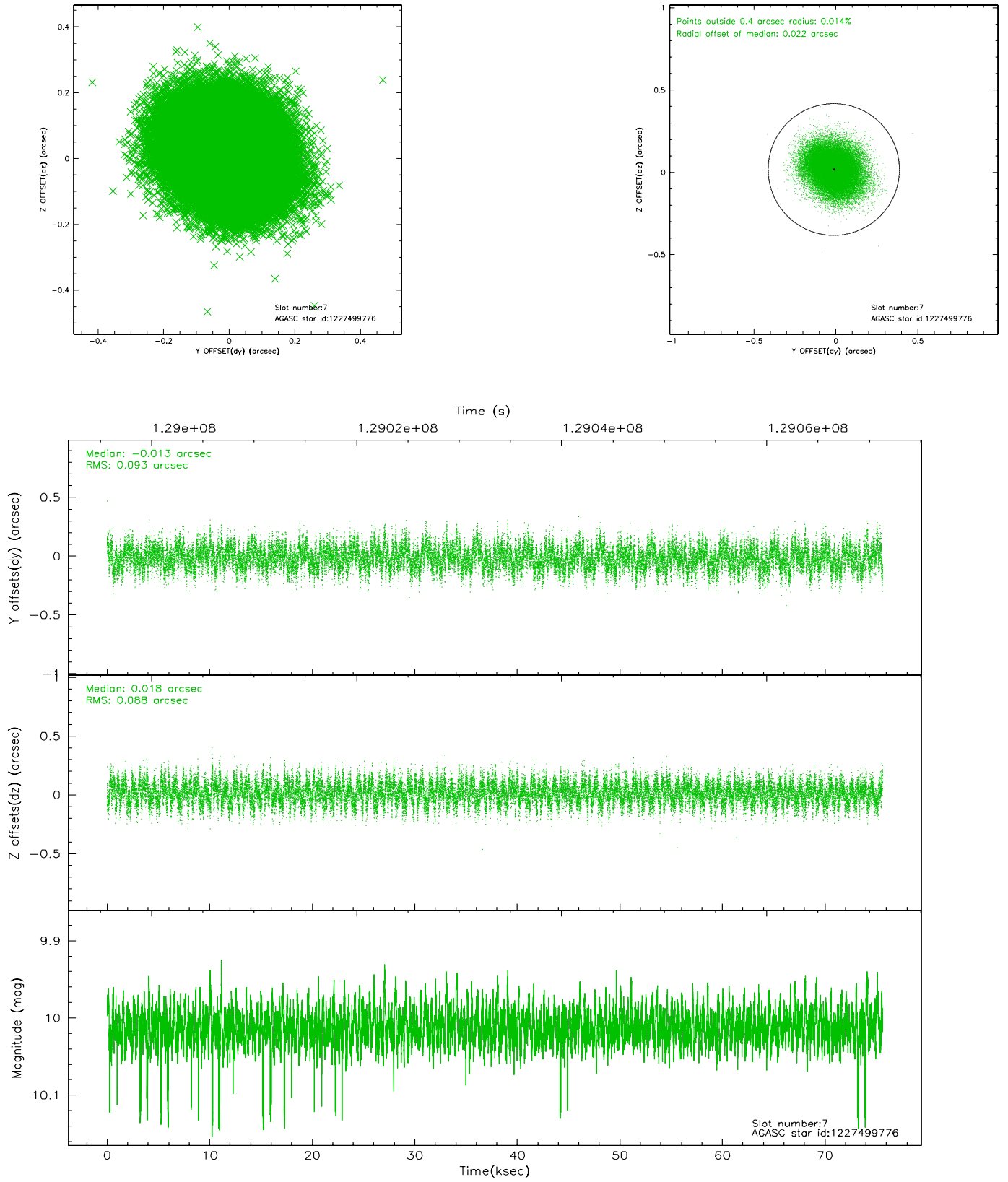
2.4.3 Slot 5



2.4.4 Slot 6

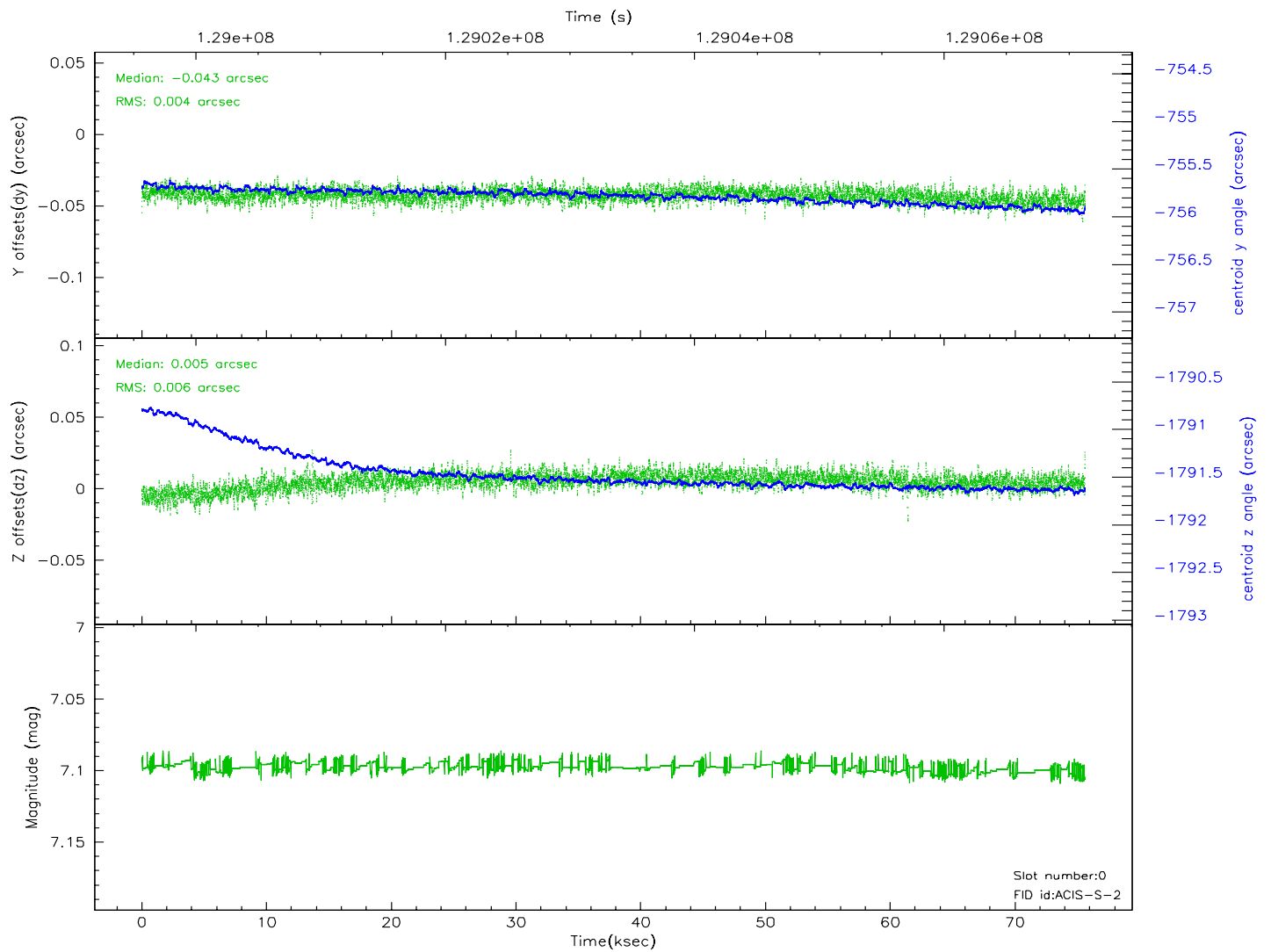
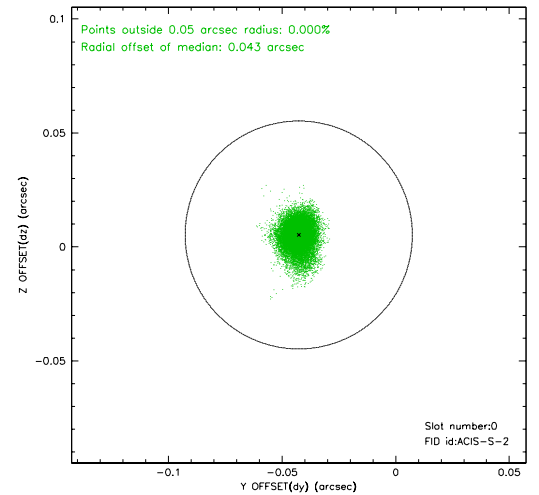
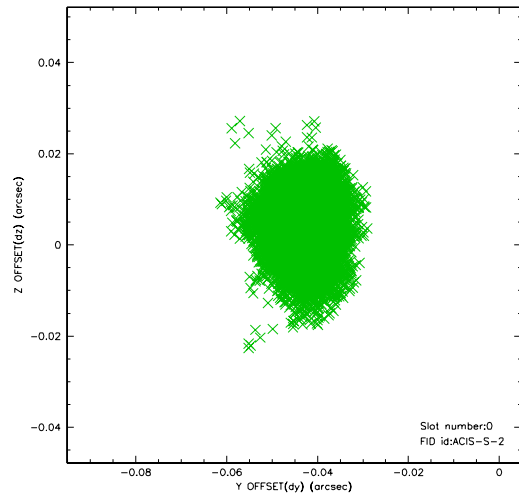


2.4.5 Slot 7

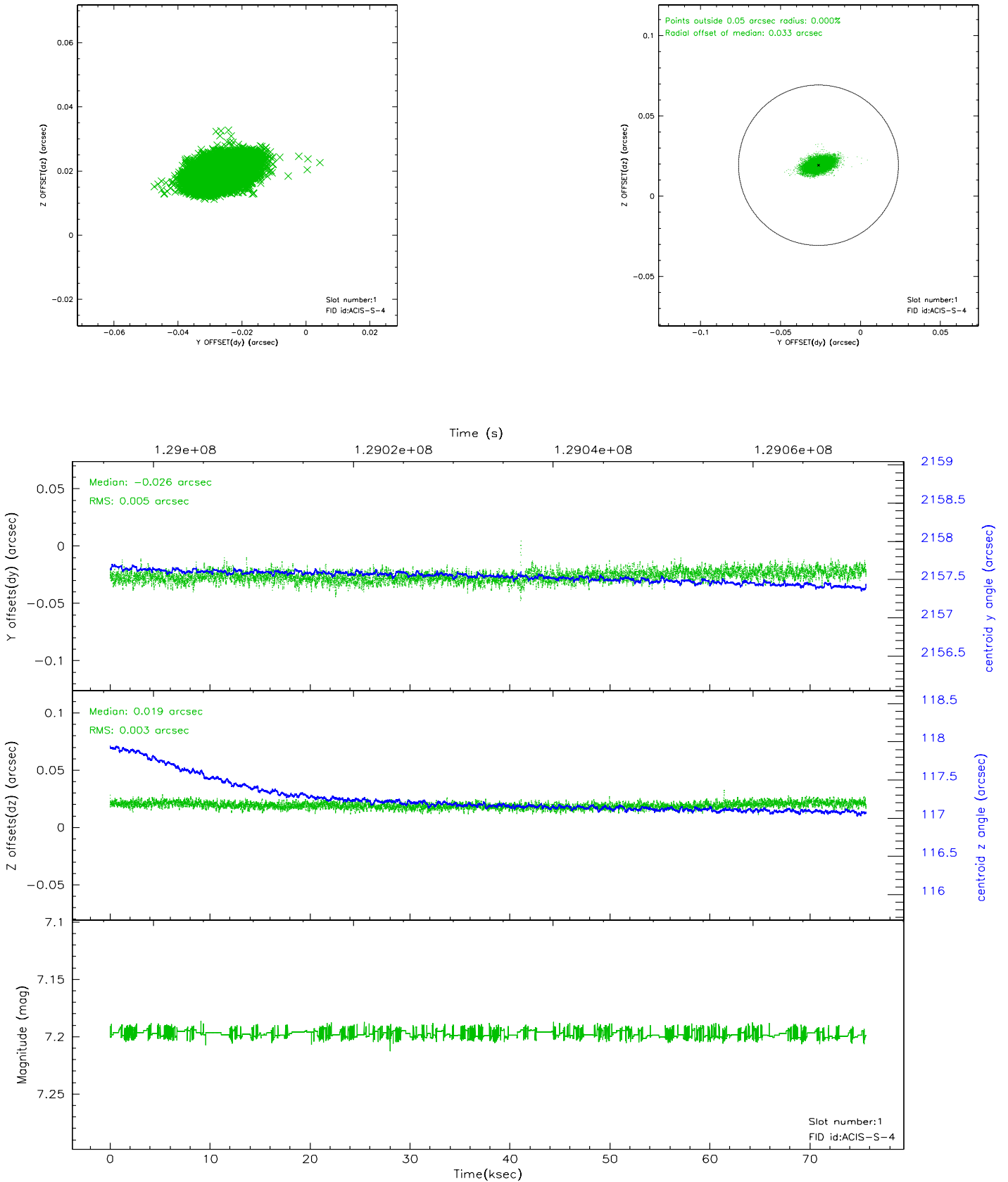


2.5 FID Slots

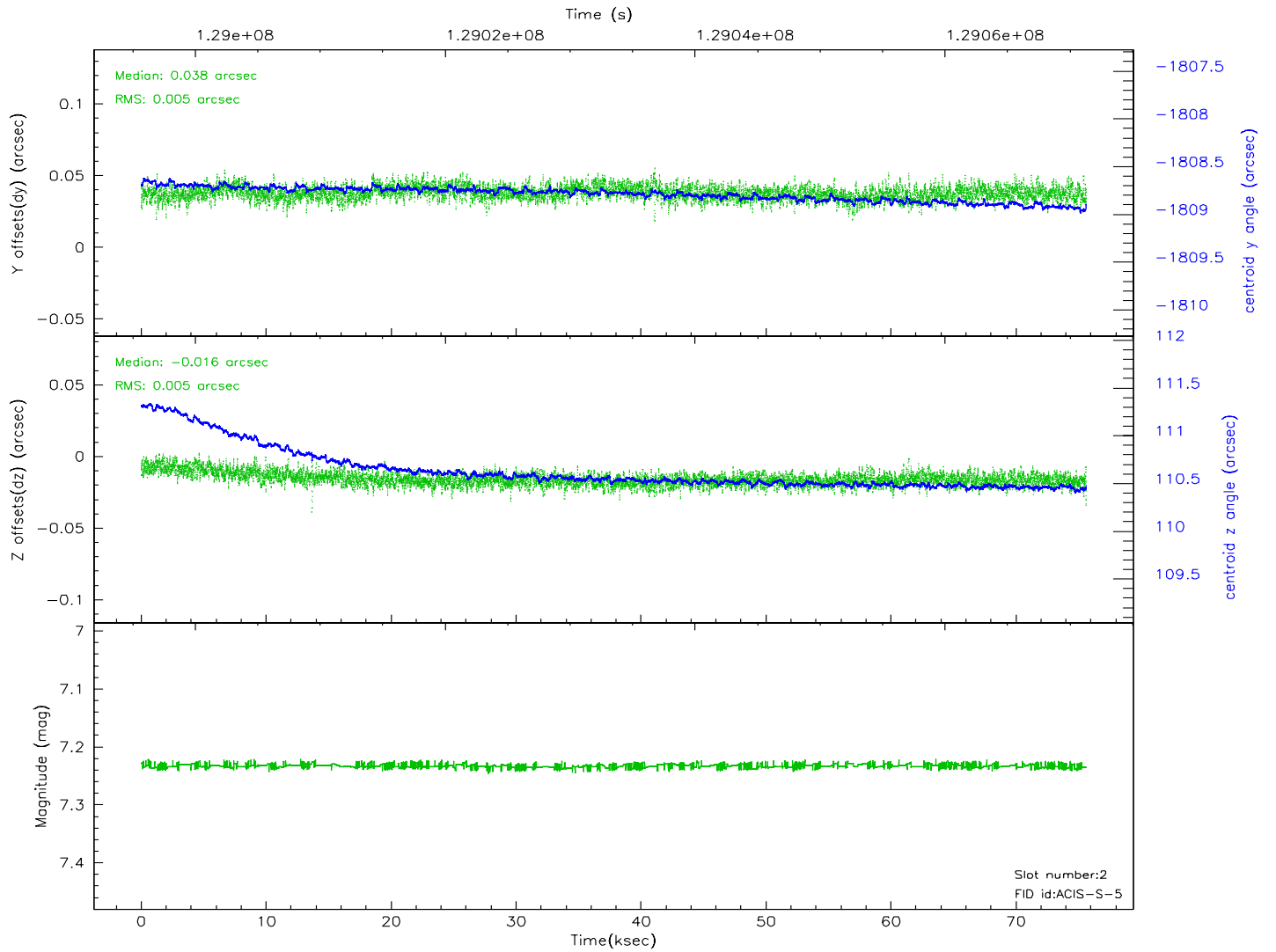
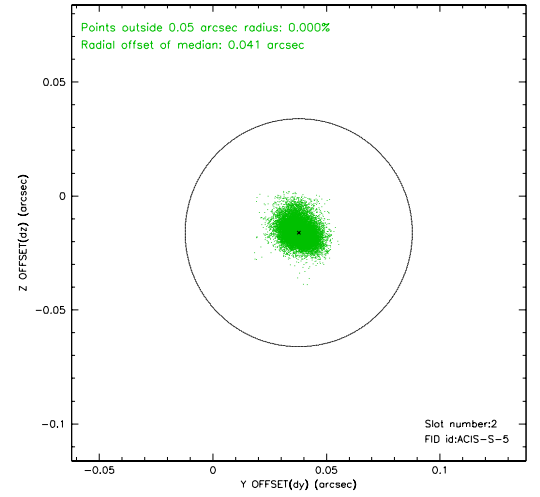
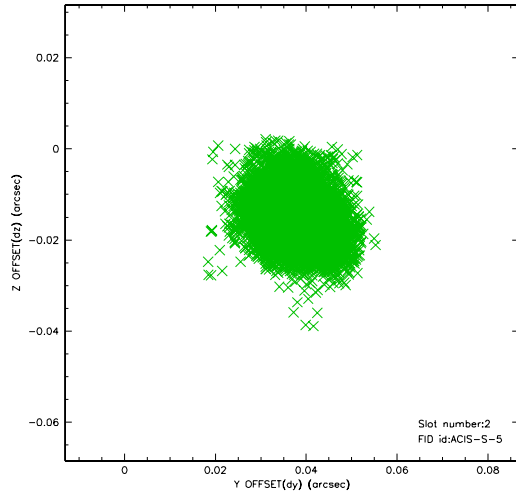
2.5.1 Slot 0



2.5.2 Slot 1

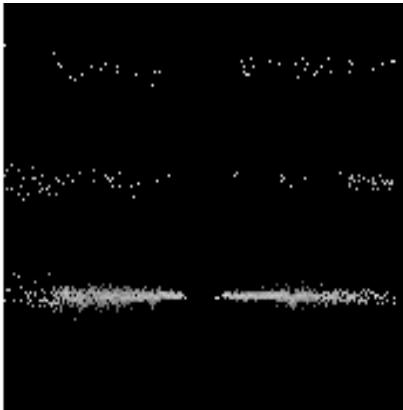


2.5.3 Slot 2

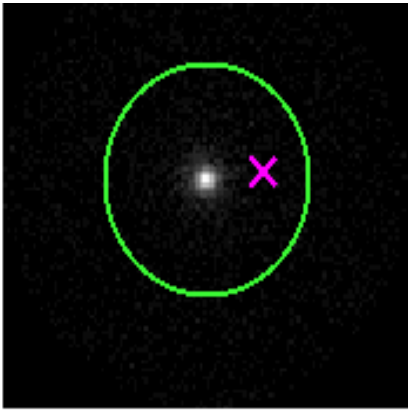


3 Gratings

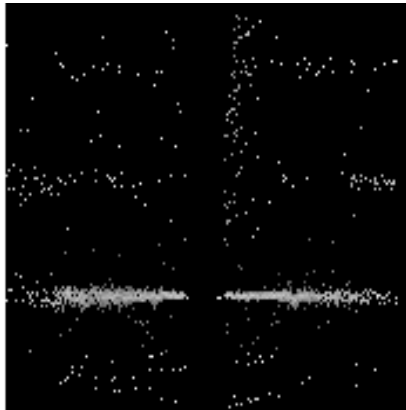
3.1 HEG Arm



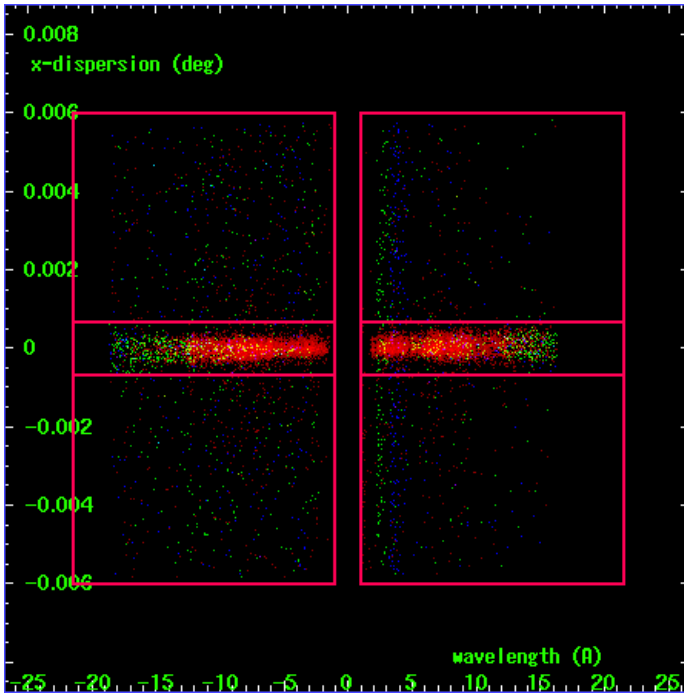
HEG Order Sort 123



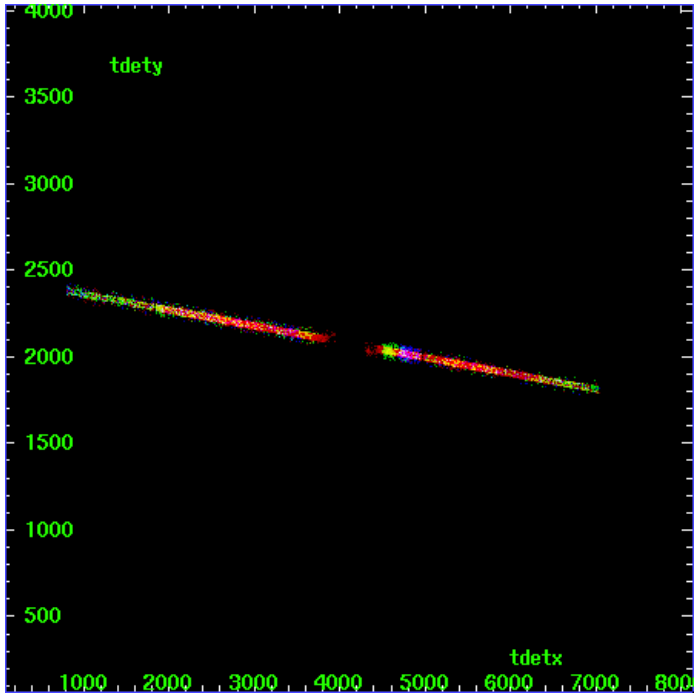
HEG Zero Order



HEG Order Sort ALL

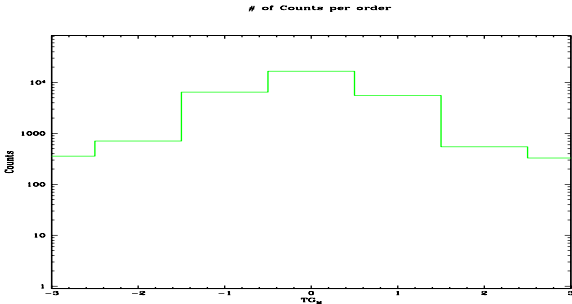


Spot Image HEG

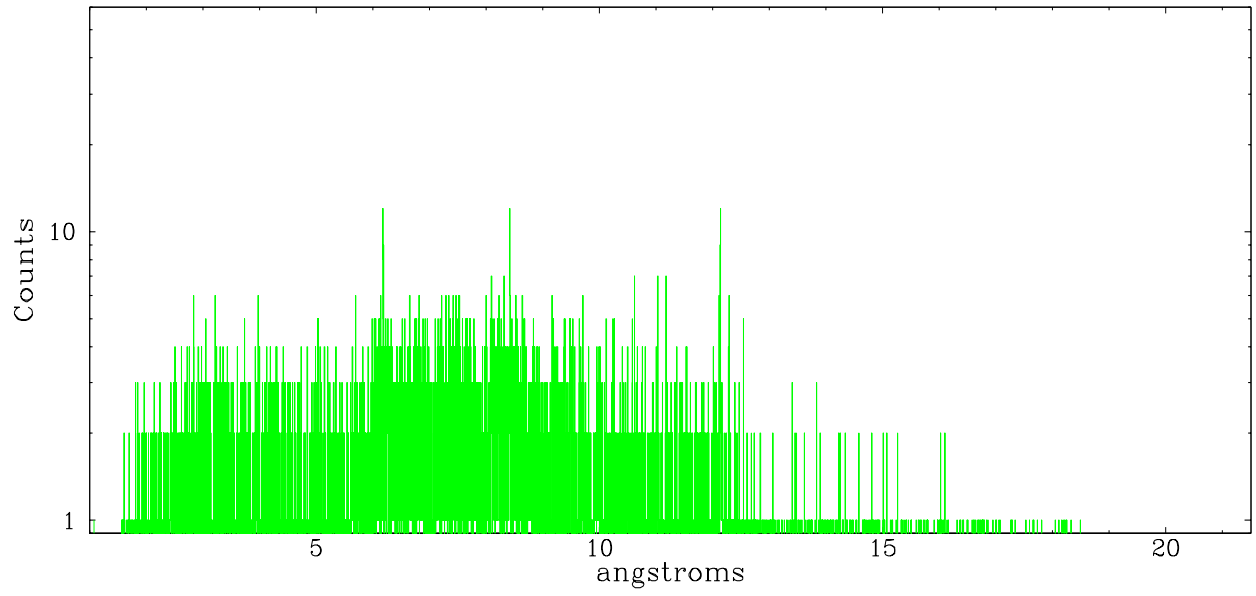


Full Detector HEG

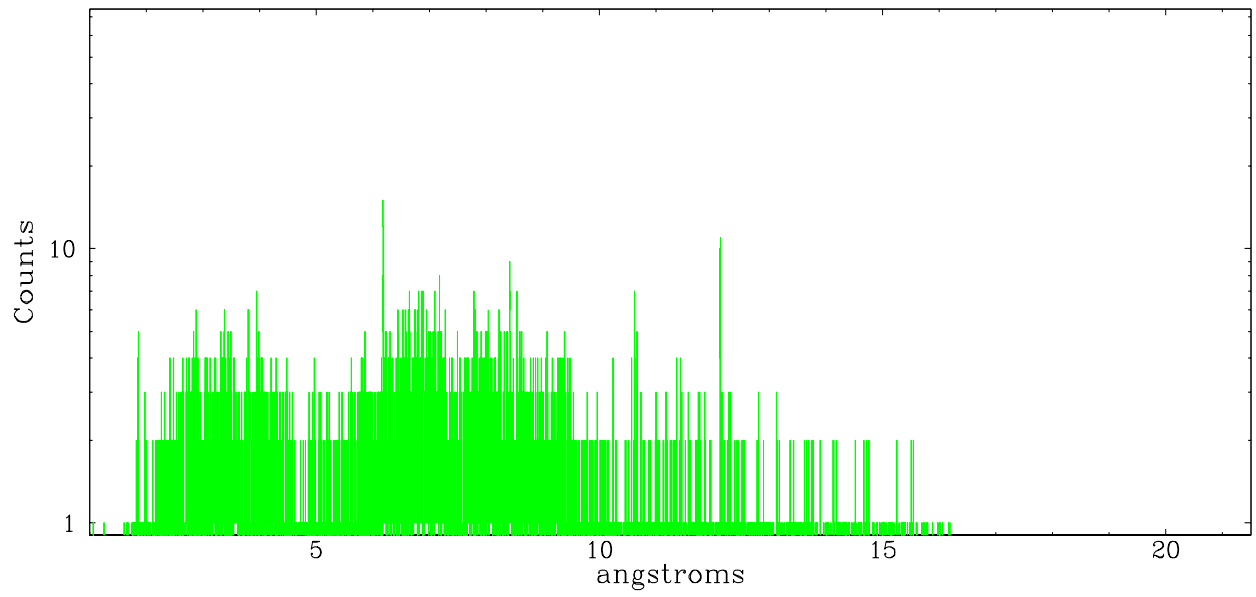
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	358	707	6458	16568	5543	546	330



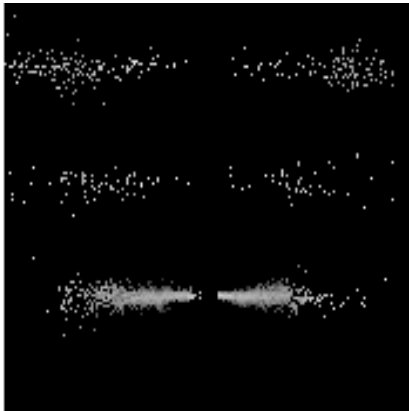
neg order -1



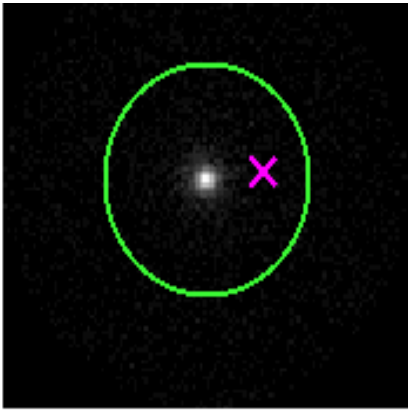
neg order +1



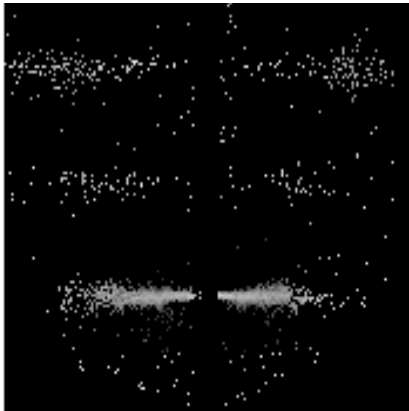
3.2 MEG Arm



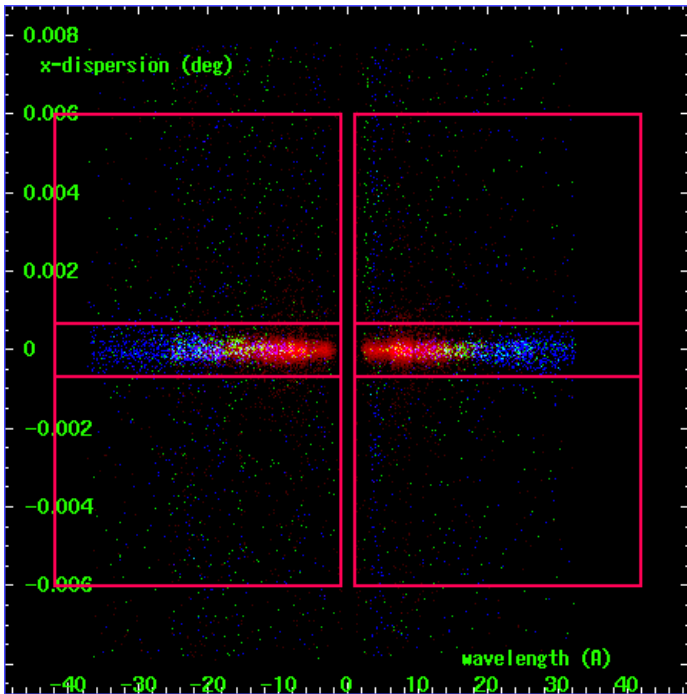
MEG Order Sort 123



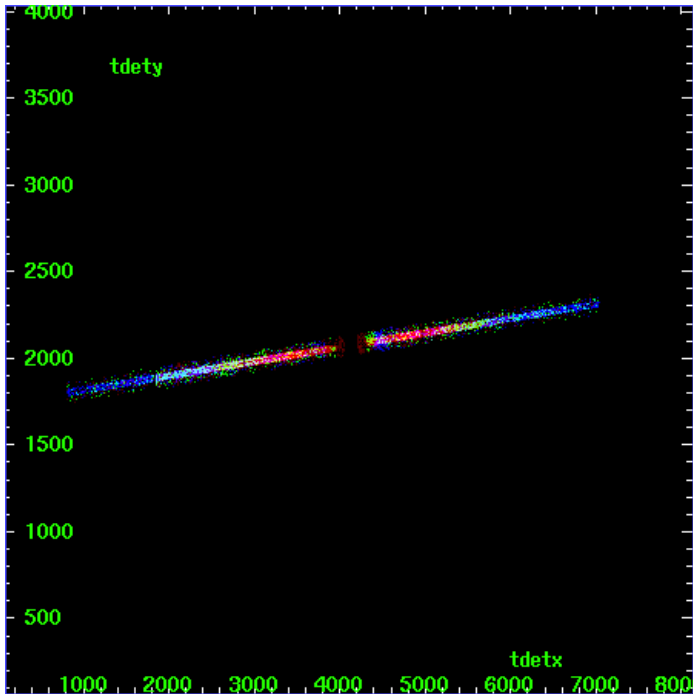
MEG Zero Order



MEG Order Sort ALL

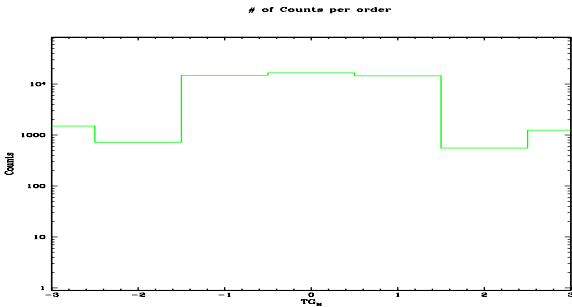


Spot Image MEG

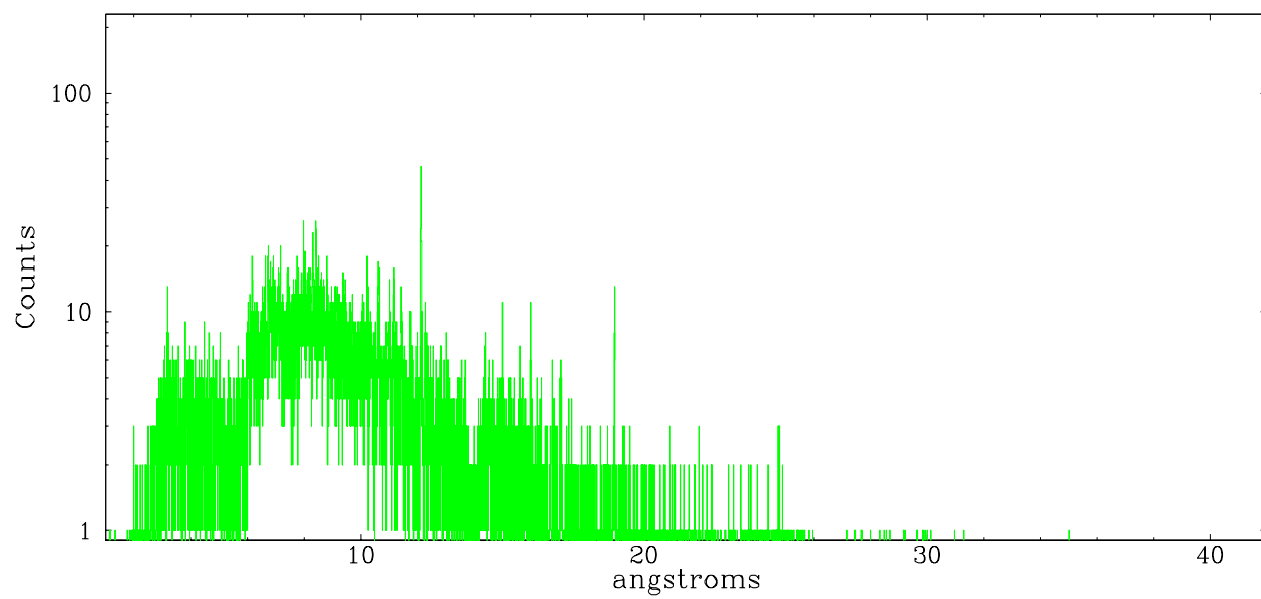


Full Detector MEG

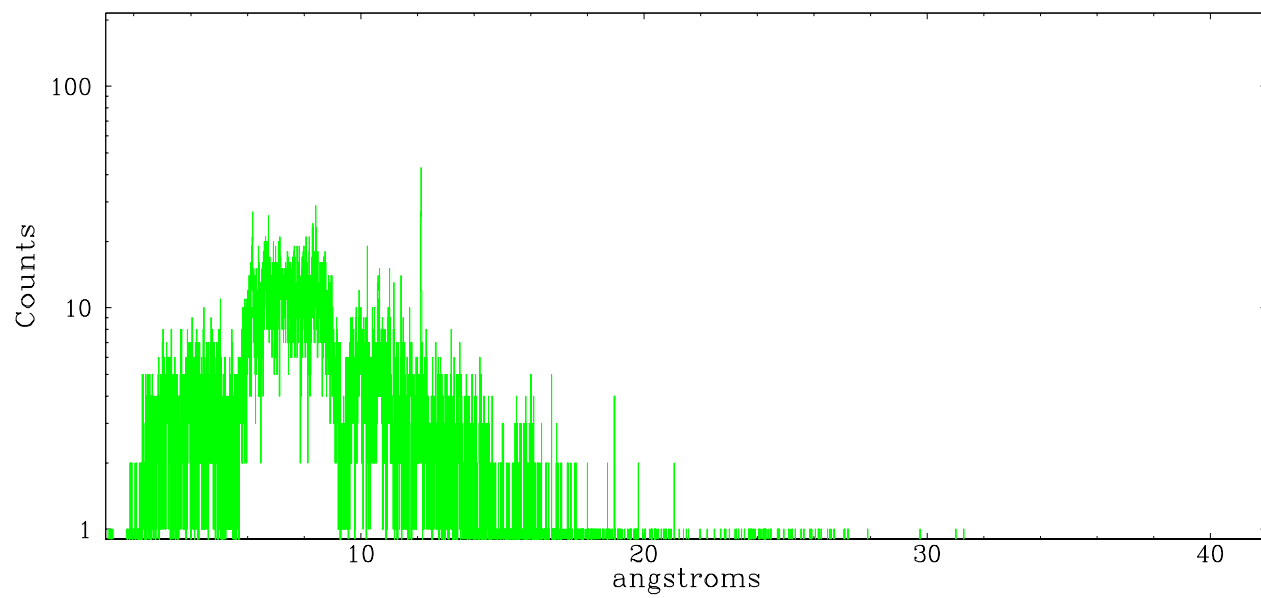
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1499	721	14911	16568	14523	556	1252



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.08.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	75.2

A.2 Comments